Roland

VersaUV
PRINT&CUT

LEC-300 / 300A / 330

Before using, be sure to read this.

The User's Manual has been partially modified. Be sure to read this document as well as the User's Manual before using the machine.

The [MEDIA SETTING] menu has been added.

This menu enables you to make a series of required minimum settings by the interactive method so that you can optimize the output to suit the size and the type of the media. All the settings made through the [MEDIA SETTING] menu can also be made individually.
For details, see P. 3, "Setup of Media ([MEDIA SETTING] menu)."
By the addition of the [Media Setting] menu, the main menu system has been modified.
For details, see P. 14, "Modification of the Main Menu."

[TU2] is added to the [SETUP SHEET] menu.

This is one of the menus to be selected when the media take-up system is used. With [TU2] selected, you can use the media take-up system for the output involving the pullback movement.
For details, see P. 15, "When Performing Output Involving Pullback Movement (or When [TU2] Is Selected)."

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Performing the Initial Adjustment (Correcting for Misalignment in Bidirectional Printing More Precisely)

Perform the initial adjustment (correction for misalignment in bidirectional printing more precisely) of this machine. This adjustment is necessary in the following cases. If the thickness of the media is over 0.5mm, raise the head height before performing this adjustment.

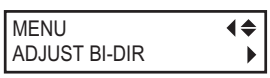
☞ User's Manual, "Adjusting Head Height to Match Media Thickness"

- **When using this machine for the first time**
- **When changing the media to use**
- **When the printing is not improved after performing the simplified correction of the bidirectional printing (described in the User's Manual, "Correcting for Misalignment in Bidirectional Printing")**

Procedure

1 **Press** (MENU).

2



Press (▼) several times until the screen shown on the left appears.
Press (►) and then (▲).

3

Press (►).

4

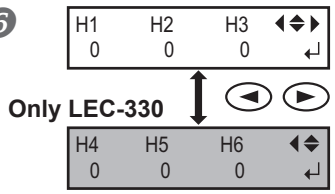
Press (ENTER).
A test pattern is printed.
When printing ends, then press (▼).

5

Press (►).

Continued on the next page

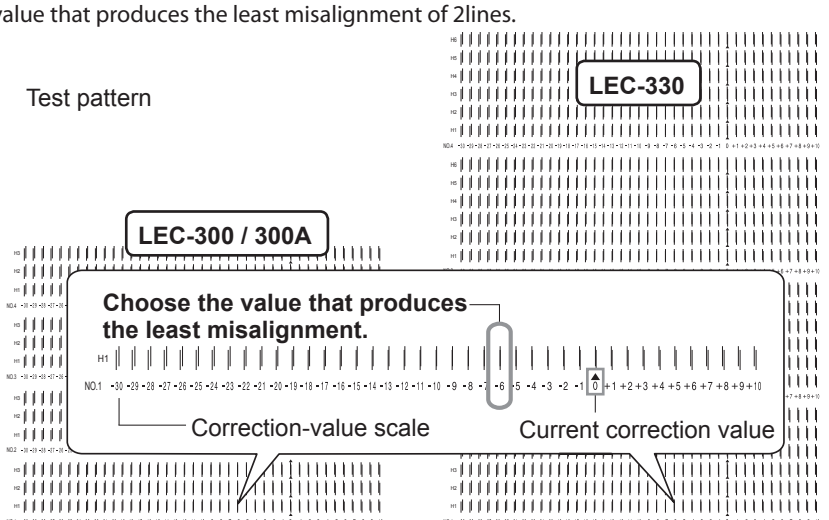
❻



Press ◄ ► to select from H1 to H3 (or from H1 to H6 for LEC-330).
Press ▲ ▼ to select a correction value from H1 to H3 (or from H1 to H6 for LEC-330).
Press ENTER to finish making the settings for [SETTING NO.1].

To decide a Correction Value

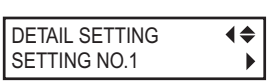
Choose the value that produces the least misalignment of 2lines.



If the Printing-test Results Are Difficult to Interpret

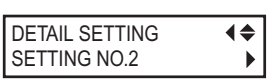
Examine the results from different angles in a well-lighted location. Take advantage of reflected light to enable visual checking.

❼



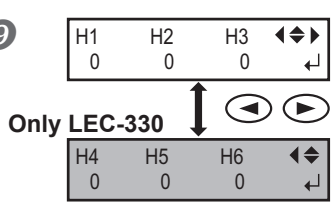
Press ▼.

❽



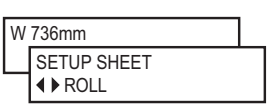
In the same manner as performed for [SETTING NO.1], set the correction values for the other items from [SETTING NO.2] to [SETTING NO.4].

❾



When correction value settings end, press ENTER.

❿



Press MENU ◄ in this order to go back to the original screen.

Setup of Media ([MEDIA SETTING] menu)

Start the [MEDIA SETTING] menu after performing the initial adjustment.

☞ P.1, "Performing the Initial Adjustment (Correcting for Misalignment in Bidirectional Printing More Precisely)"

- Only Printing: Perform the procedure *1.* to *5.*, and *9*.
- Print & Cut: Perform all the procedure *1.* to *9*.

Note: If any setting is not needed for each setting item, you can go to the next menu by selecting [NEXT].

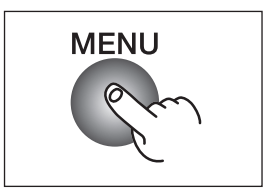
1. Starting the [MEDIA SETTING] menu.

❶ **Load media.**

Check that no sagging is found on the media. If any sagging exists, the followed correction value settings do not work effectively.

☞ User's Manual, "Loading Media"

❷



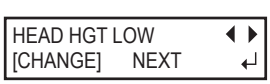
Press (MENU) **.**

❸

When the left figure is displayed, press (ENTER) **.**

2. Adjusting the Print Head Height.

❶



Press (◄) **to select [CHANGE].**
Press (ENTER) **to enable the setting.**

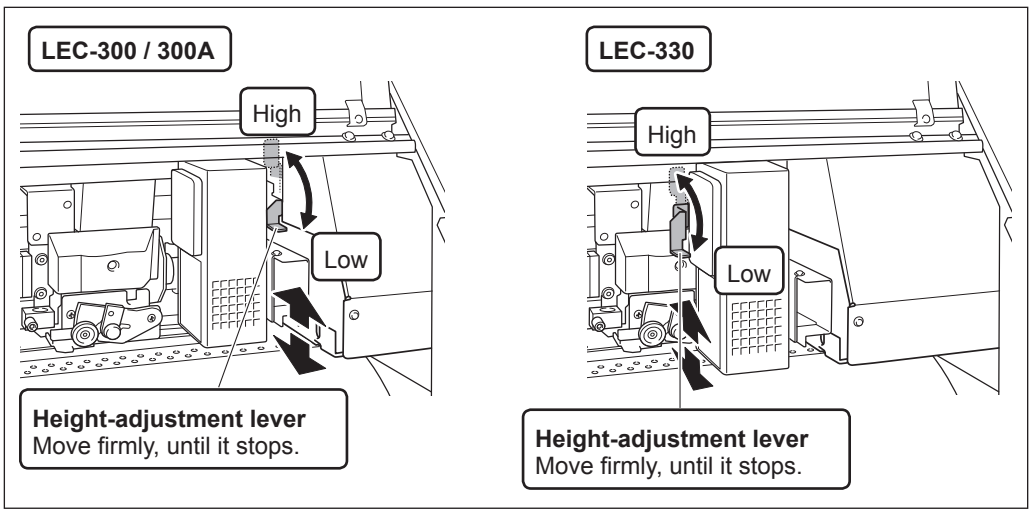
❷

When the left figure is displayed, open the front cover.

Continued on the next page

❸ **Move the height-adjustment lever to adjust the head height.**

When moving to the [High] direction, the buzzer sounds twice, and to the [Low] direction, the buzzer sounds once.



POINT!

Normally set to [Low]. However, when the media is over 0.5mm thick, set to [High].

❹ **Close the front cover.**

For the separate setting method and descriptions for this item, see here. ☞ User's Manual, "Adjusting Head Height to Match Media Thickness"

To cancel the setting

Procedure

❶ **Press (MENU) during the setting.**

❷

QUIT SETTING? [YES] NO	**Press (◄) to select [YES].** **Press (ENTER).**
MENU MEDIA SETTING	The screen returns to the screen shown at the left. By selecting [NO], the screen returns to the screen displayed when you pressed (MENU).

3. Perform the position correction of feed direction (Alleviate Horizontal Stripes).

POINT!

Feed direction means the feed direction of the media. Perform the correction adjusting to the media in advance because horizontal stripes are more likely to occur during printing when the movement distance of the media changes subtly depending on the kind or thickness of the media..

❶

Press ◄ to select [SET].
Press ENTER to enable the setting.
The test pattern of feed correction is output.

❷

When the left figure is displayed, press ENTER.

❸

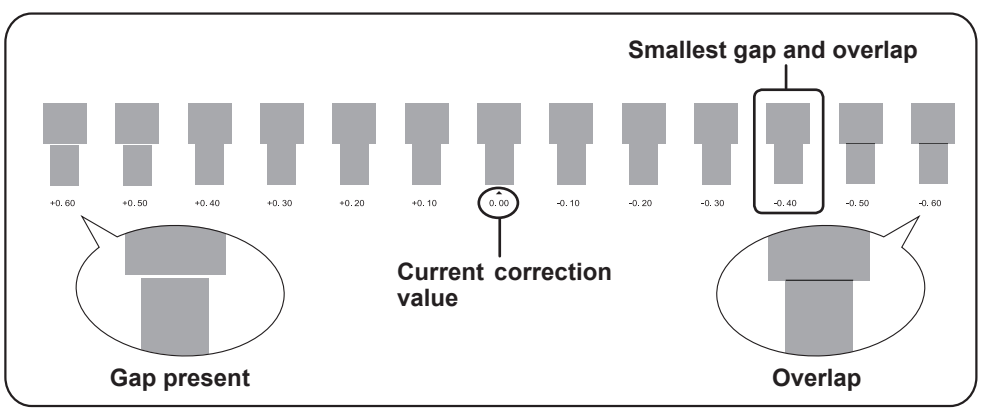
Current correction value

Value to be set

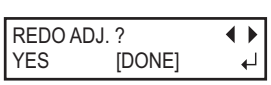
Use ▲ ▼ to set the correction value.
Press ENTER to enable the setting.

To decide a Correction Value

Select the value to make the upper/lower rectangular gap and overlap smallest.



❹



[To confirm again/To adjust again]
Press ◄ to select [YES].
Press ENTER to enable the setting.
The test pattern of feed correction is output again. Go back to the procedure ❸ and set again.

[To go to the next after correction is completed]
Press ► to select [DONE].
Press ENTER to enable the setting.

For the separate setting method and descriptions for this item, see here. ☞ User's Manual, "Performing Feed Correction to Alleviate Horizontal Bands and the Like"

4. Performing the correction for misalignment in bidirectional printing

POINT!

This machine prints by the bidirectional mode (in which the heads perform printing during both their outbound pass and return pass). This printing method is called "Bidirectional Printing." This method offers the advantage of being able to shorten output times, but subtle misalignment occurs during the outbound and return passes. The procedure to correct this and eliminate misalignment is "Bidirectional Correction."

❶

Press ◄ to select [SET].
Press ENTER to enable the setting.
The test pattern of bidirectional correction is output.

❷

When the left figure is displayed, press ENTER .

❸

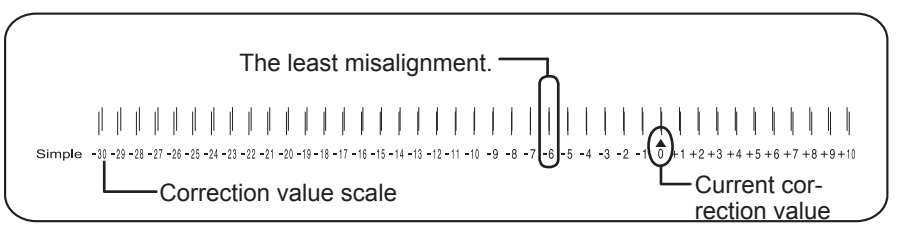
Current correction value

Value to be set

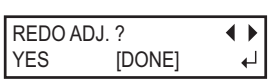
Use ▲ ▼ to set the correction value.
Press ENTER to enable the setting.

To decide a Correction Value

Choose the value that produces the least misalignment of 2lines.


The least misalignment.
Simple -30 -29 -28 -27 -26 -25 -24 -23 -22 -21 -20 -19 -18 -17 -16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 +1 +2 +3 +4 +5 +6 +7 +8 +9 +10
Correction value scale
Current correction value

❹



[To confirm again/adjust again]
Press ◄ to select [YES].
Press ENTER to enable the setting.
The test pattern of bidirectional correction is output again. Go back to the procedure ❸ and set again.

[To go to the next after correction is completed]
Press ► to select [DONE].
Press ENTER to enable the setting.

For the separate setting method and descriptions for this item, see here. ☞ User's Manual, "Correcting for Misalignment in Bidirectional Printing"

5. Deciding to perform the setting for cutting or not

[Only Printing]
Press ► to select [NEXT].
Press ENTER to enable the setting.
Go to Procedure *9*.

[Print & Cut]
Press ◄ to select [SET].
Press ENTER to enable the setting.
Go to Procedure *6*.

6. Setting the blade force

POINT!

For high-quality cutting, perform a cutting test to check the cutting quality for the media and adjust the blade force.

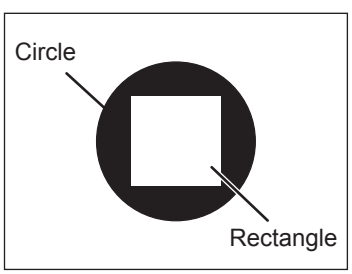
When Cutting the Printed Surface

- Hardened ink is thick. When cutting a printed surface, first perform a cutting test on the actual surface that has been printed.
- The end of the cap for the blade holder may scrape or damage the printed surface. If this happens, increase the amount of blade extension.

☞ User's Manual, "Adjusting the Cutting-in Amount" and "Adjusting for When Cutting the Printed Surface"

❶

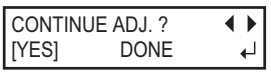
Press ◄ to select [SET].
Press ENTER to enable the setting.



The test pattern is cut. Circle and rectangle are cut. Peel off the two shapes.

Continued on the next page

❷



[Two shapes are peeled off separately]
Press ► to select [DONE].
Press ENTER to enable the setting.
Go to Procedure 7.

[Two shapes are peeled off together/backing paper is also cut]
Press ◄ to select [YES].
Press ENTER to enable the setting.
Go to Procedure ❸.

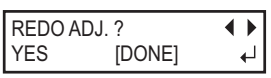
❸

Current correction value

Value to be set

Press ▲ ▼ to adjust the blade force.
If two shapes are peeled off together ⇨ raise the blade force.
If backing paper is cut too ⇨ reduce the blade force.
Press ENTER to enable the setting.
Cut the test pattern again. Check the result.

❹



[Two shapes are peeled off separately]
Press ► to select [DONE].
Press ENTER to enable the setting.
Go to Procedure 7.

[Two shapes are peeled off together]
Press ◄ to select [YES].
Press ENTER to enable the setting.
Cut the test pattern again. Go back to the procedure ❸ and set again.

For the separate setting method and descriptions for this item, see here. ☞ User's Manual, "Fine-tuning the Cutting Conditions"

7. Correcting Misalignment for Printing and Cutting

POINT!

Subtle misalignment between the printing and cutting positions may occur due to the thickness of the media or the head height. We recommend making correction to match the media you're using.

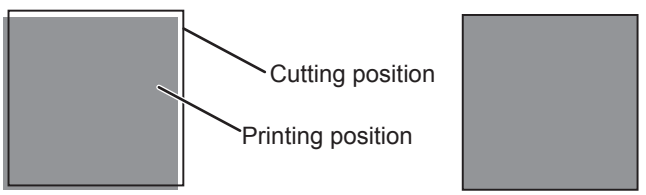
❶

PRINT-CUT ADJ. ◄ ►
[SET] NEXT ↵

Press ◄ to select [SET].
Press ENTER to enable the setting.
The test pattern (P&C1) is printed and cut. The test pattern is printed at three locations on the media: at the two edges and in the center.

❷ **Check the test pattern condition.**

To check the test pattern (P&C1)
Check to make sure that the printing position and the cutting position are aligned.



Cutting position and printing position are misaligned.

Cutting position and printing position are aligned.

❸

CONTINUE ADJ. ? ◄ ►
[YES] DONE ↵

[Cutting position and printing position are aligned]
Press ► to select [DONE].
Press ENTER to enable the setting.
Go to Procedure 8.

[Cutting position and printing position are not aligned]
Press ◄ to select [YES].
Press ENTER to enable the setting.
The test pattern (P&C2) for setting the correction values is printed and cut. Go to Procedure ❹.

❹

INPUT
ADJ. VALUES ↵

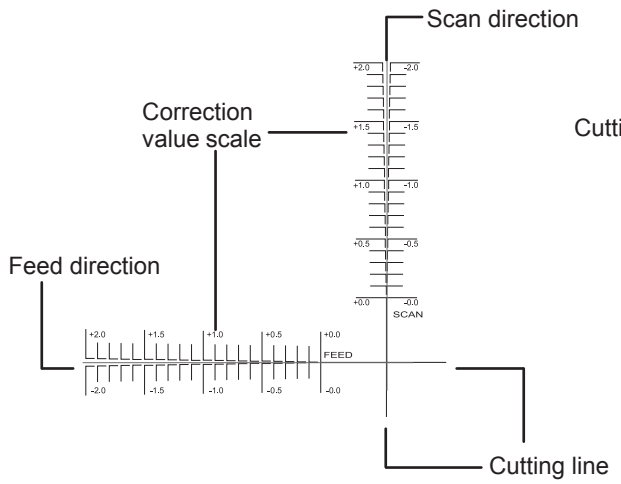
When the left figure is displayed, press ENTER.

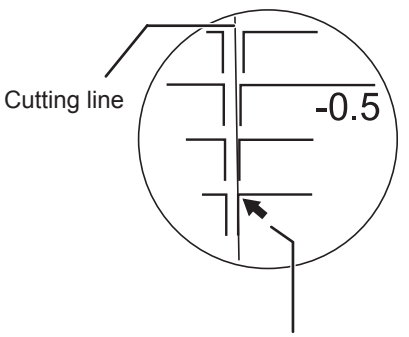
Continued on the next page

❺ Check the correction values from the test pattern condition.

To check the test pattern (P&C2)

The point where the cutting line intersects the correction-value scale is the correction value. Check the scan direction and the feed direction respectively.





For the figure, the correction value is "-0.3."

❻

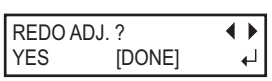
Current correction value

Value to be set

Use ▲ ▼ to set the correction value of feed direction (F).
Use ◄ ► to set the correction value of scan direction (S).
Press ENTER to enable the setting.

The test pattern (P&C1) is printed and cut again. Check the condition of test pattern to check that the printing position and the cutting position are aligned.

❼



[Cutting position and printing position are aligned]
Press ► to select [DONE].
Press ENTER to enable the setting.
Go to Procedure *8*.

[Cutting position and printing position are not aligned]
Press ◄ to select [YES].
Press ENTER to enable the setting.
Go back to Procedure ❻ and set the correction values again. Repeat Procedure ❻ and ❼ until the optimal alignment is got.

For the separate setting method and descriptions for this item, see here. ☞ User's Manual, "Correcting Misalignment of the Printing and Cutting Positions"

8. Correcting Misalignment for Printing and Cutting Position When Using Crop Marks.

POINT!

When you remove the printed media, and then reload it and perform cutting, use the crop marks. For this case, correction is to be performed because the positioning of printing and cutting may be misaligned even when you're using crop marks depending on the composition of the media.

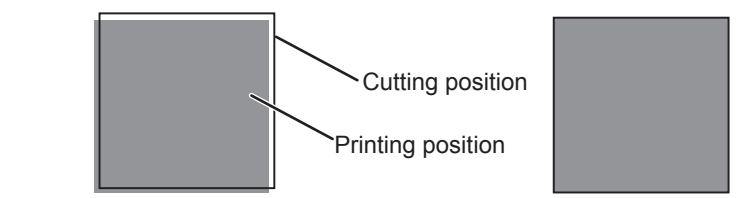
❶

[To perform consecutive printing and cutting]
Press ► to select [NEXT].
Go to Procedure 9.

[To perform printing and cutting separately]
Press ◄ to select [SET].
Press ENTER to enable the setting.
The test pattern (C&C1) is printed and cut. Go to Procedure ❷.

❷ **Check the test pattern condition.**

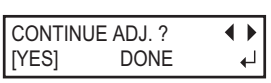
To check the test pattern (C&C1)
Check to make sure that the printing position and the cutting position are aligned.



Cutting position and printing position are not aligned

Cutting position and printing position are aligned

❸



[Cutting position and printing position are aligned]
Press ► to select [DONE].
Press ENTER to enable the setting.
Go to Procedure 9.

[Cutting position and printing position are not aligned]
Press ◄ to select [YES].
Press ENTER to enable the setting.
The test pattern (C&C2) for setting the correction values is printed and cut.

❹

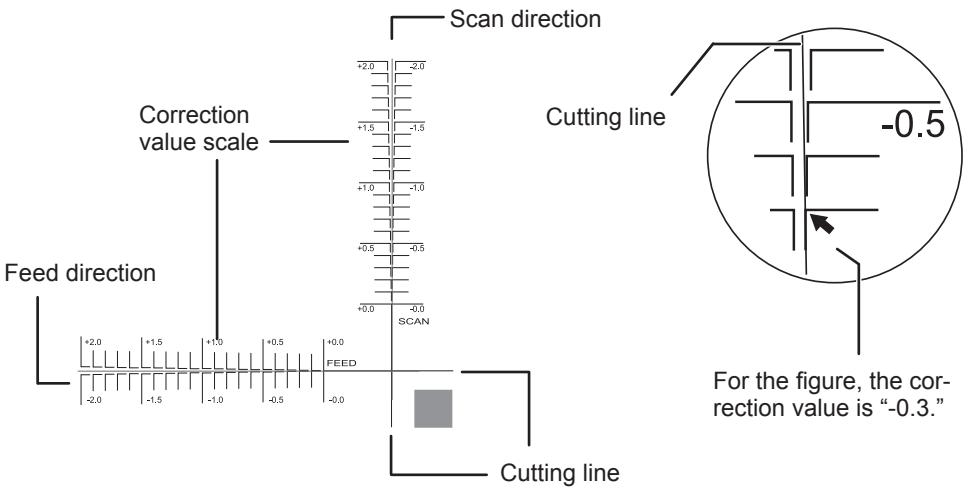
When the left figure is displayed, press ENTER.

Continued on the next page

❺ Check the correction values from the test pattern condition.

To check the test pattern (C&C2)

The point where the cutting line intersects the correction-value scale is the correction value. Check the scan direction and the feed direction respectively.



❻

Current correction value

Value to be set

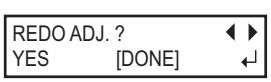
Use ▲ ▼ to set the correction value of feed direction (F).

Use ◄ ► to set the correction value of scan direction (S).

Press ENTER to enable the setting.

The test pattern (C&C1) is printed and cut again. Check the condition of test pattern to check that the printing position and the cutting position are aligned.

❼



[Cutting position and printing position are aligned]

Press ► to select [DONE].

Press ENTER to enable the setting.

Go to Procedure ❾.

[Cutting position and printing position are not aligned]

Press ◄ to select [YES].

Press ENTER to enable the setting.

Go back to Procedure ❻ and set the correction values again. And repeat Procedure ❻ and ❼ until the optimal alignment is got.

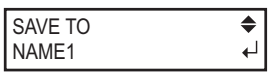
For the separate setting method and descriptions for this item, see here. ☞ User's Manual, "Correcting Misalignment for Printing and Cutting When Using Crop Marks"

9. Saving the Setting as Preset

❶

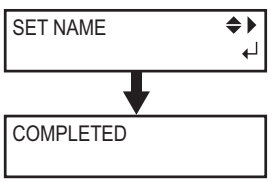
Press ◄ to select [SAVE].
Press ENTER to enable the setting.
If you select [NEXT], the performed settings are retained. However, those settings are not saved as presets.

❷



Use ▲ ▼ to select to select the destination to save.
You can select one of NAME1 to 8.
Press ENTER to enable the setting.

❸



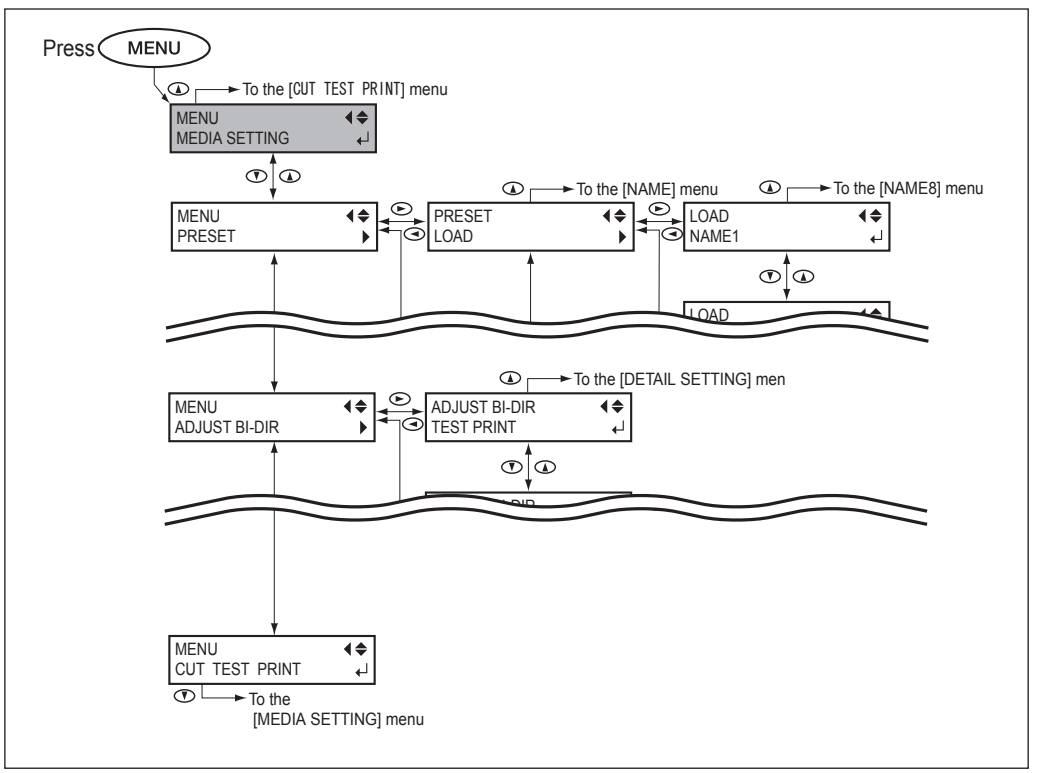
Use ▲ ▼ to select characters.
Use ► to move the next character.
Select the following characters in the same way.
You can enter up to15 characters.
Press ENTER to enable the setting.

For the separate setting method and descriptions for this item, see here. ☞ User's Manual, "Saving the Printer Settings to Match the Media"

This completes the operation of the [MEDIA SETTING] menu.

Modification of the Main Menu

By the addition of the [Media Setting] menu, the main menu system has been modified as shown in the below chart.



By the modification of the main menu, the operation instructions to show some items of the menu on the display are to be corrected as below.

Menu	Wrong	Correct
MENU PRESET	Press (MENU).	Press (MENU). Press (▼).
MENU ADJUST BI-DIR	Press (MENU). Press (▼).	Press (MENU). Press (▼) several times.

When Performing Output Involving Pullback Movement (or When [TU2] Is Selected)

SETUP SHEET
◆▶TU2

In using the media take-up system to perform output involving pullback movement, select [TU2] of the [SETUP SHEET] menu. For the operations after selecting [TU2], follow the instructions described in "Using the Media Take-up System" of the User's Manual.
When [TU2] is selected, follow the below instructions.

Never pull the media with excessive force.

If the media is pulled forcedly, it may result in interruptions during output or inaccuracy of output locations. When using the media take-up system, to avoid pulling media with undue force, be sure to observe the following points.

- Never operate the MANUAL switch for the take-up unit when the loading lever is pulled back.
- Never press ▲ to pull the media back.
- Be sure to set the base point when the media is moved forward by pressing ▼ after the setting of the media is completed.
- Set 120mm or more on the computer for the margin from the output end location to the next output start location (or the space between the pages).

When Performing Continuous Printing of Two or More Pages

When you're performing continuous printing and take-up for two or more pages, give attention to the following points.

- If the setting to execute automatic cutoff of the media can be made on the computer, then turn this setting off. Making the setting on the computer to execute automatic cutoff of the media results in media cutoff after each page is printed. Take up quits as soon as the media is cut off.

Movement until the media has been set with [TU2] selected

With [TU2] selected, the media will be fed out until the dancer roller leans down to the front completely.

Operation till the media is taken up when [TU2] is selected

The media is not taken up during output. When output is finished, the media is pulled back to a given position, and the taking-up operation starts.

About Length Output At One Time

If the length of output at one time is too long, the media may get soiled by touching the work floor. To avoid the media from getting soiled by touching the floor, output the media by about 300 mm. To output by limiting the length, use the function of RIP software.

☞ The setting method when using Roland VersaWorks is continued on next page.

How to Output by Limiting Length (Roland VersaWorks)

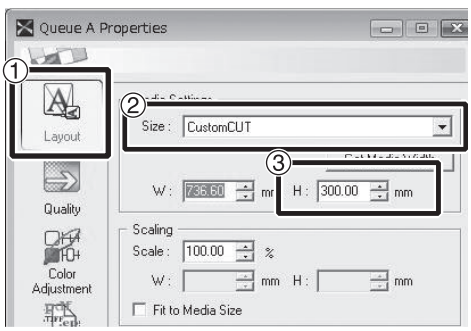
This section describes "how to output by limiting the length" using Roland VersaWorks (hereinafter RVW). For information on the detail usage of RVW, refer to the user's manual of RVW.

Procedure

❶ Open "Que Properties" window (or "Job Setting" window)

Select the input folder to be used.

❷



"Que Properties" window
(The setting item and the method in "Job Setting" window are the same as this procedure.)

① Click .
② Select "CustomCUT" from [Size] under "Media Settings."
③ Set "H."